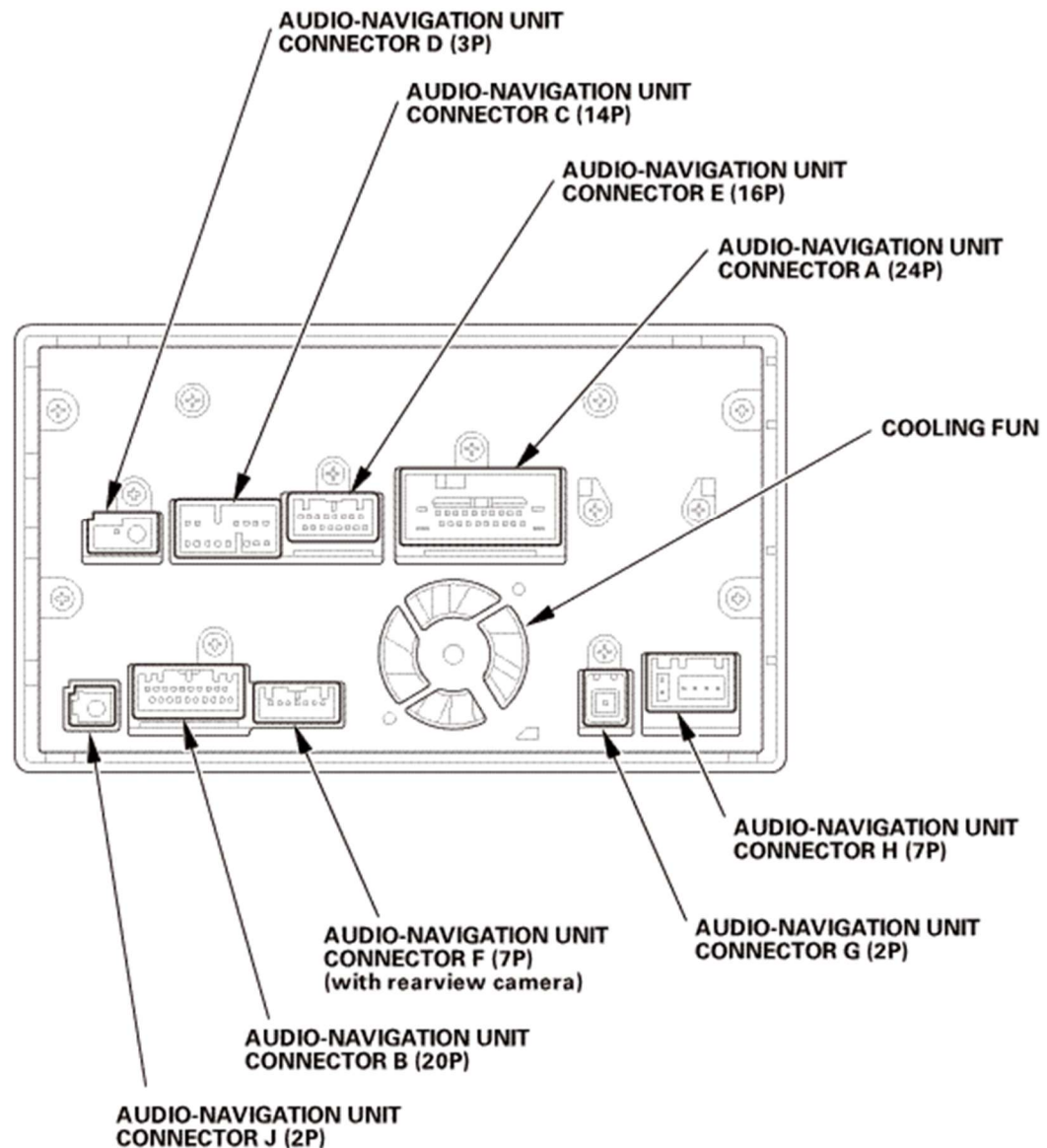


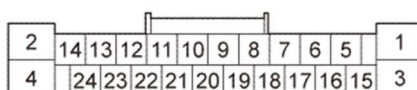
[2013 Civic Premium Sound Navigation Pinout / Diagram | 9th Generation Honda Civic Forum](#)

Here is the pinout for the 2013 Civic Premium Sound Navigation. It is identical to the CRV one posted below but has the additional 7 and 20 pin plugs.

Navigation Unit Connector for Inputs and Outputs



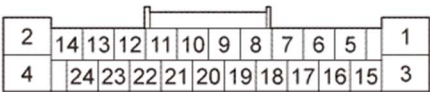
AUDIO-NAVIGATION UNIT CONNECTOR A (24P) (with premium audio)



Wire side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
A1	BLK	GND	Ground for audio-navigation unit (G505)	0 V	If open: Display picture goes out. If short to ground: No effect on system.
A2	Not used	Not used	-----	-----	-----
A3	WHT	+B BACK_UP	Continuous power source for audio system	Battery voltage	If open: Display picture goes out. If short to ground: Blows fuse No. A29 (10 A) in the under-hood fuse/relay box.
A4	Not used	Not used	-----	-----	-----
A5	BLU	RL_PRE +	Outputs sound signal for left rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left rear speaker.
A6	PNK	RL_PRE -	Outputs sound signal for left rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left rear speaker.
A7	GRY*	SH_RL_PRE	Shield for terminals No. 5 and No. 6	-----	-----
A8	GRY*	SH_RR_PRE	Shield for terminals No. 9 and No. 10	-----	-----
A9	LT BLU	RR_PRE +	Outputs sound signal for Right rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right rear speaker.
A10	PUR	RR_PRE -	Outputs sound signal for Right rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right rear speaker.
A11	Not used	Not used	-----	-----	-----
A12	GRN	SCTY RADIO_SW	Security signal from MICU	-----	If open: The security system sets, and does not trip when audio-navigation unit is removed. If short to ground: The security system sets, and does not trip when audio-navigation unit is removed.
A13	LT BLU	K_LINE	Detects scan tool signal (serial data)	-----	-----
A14	Not used	Not used	-----	-----	-----
A15	BRN	FL_PRE +	Outputs sound signal for left front speakers	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left front speakers.
A16	YEL	FL_PRE -	Outputs sound signal for left front speakers	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left front speakers.
A17	GRY*	SH_FL_PRE	Shield for terminals No. 15 and No. 16	-----	-----
A18	GRY*	SH_FR_PRE	Shield for terminals No. 19 and No. 20	-----	-----
A19	GRN	FR_PRE +	Outputs sound signal for right front speakers	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right front speakers.
A20	RED	FR_PRE -	Outputs sound signal for right front speakers	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right front speakers.
A21	WHT	SWD + B	Outputs signal for stereo amplifier switching on/off	Ignition switch ACC (I): 10.5 V	If open/short: No sound is heard from all speakers.
A22	Not used	Not used	-----	-----	-----
A23	BLU	VSP	Detects vehicle speed pulse from ECM/PCM	Ignition switch ON (II): 0 - 5 V pulses, 2.5 V average (depends on vehicle speed)	If open/short: No vehicle speed pulse. Diagnostic screen Car Status, VSP = 0.
A24	PUR	ACC	Power source for accessories	Ignition switch ACC (I): Battery voltage	If open: Display picture goes out. If short to ground: Blows fuse No. B19 (7.5 A) in the under-dash fuse/relay box.

AUDIO-NAVIGATION UNIT CONNECTOR A (24P) (without premium audio)



Wire side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
A1	BLK	GND	Ground for audio-navigation unit (G505)	0 V	If open: Display picture goes out. If short to ground: No effect on system.
A2	Not used	Not used	-----	-----	-----
A3	WHT	+B_BACK_UP	Continuous power source	Battery voltage	If open: Display picture goes out. If short to ground: Blows fuse No. A29 (10 A) in the under-hood fuse/relay box.
A4	Not used	Not used	-----	-----	-----
A5	YEL	RL_SPKR +	Outputs sound signal for left rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left rear speaker.
A6	BRN	RL_SPKR -	Outputs sound signal for left rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left rear speaker.
A7	Not used	Not used	-----	-----	-----
A8	Not used	Not used	-----	-----	-----
A9	BLU	RR_SPKR +	Outputs sound signal for right rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right rear speaker.
A10	ORN	RR_SPKR -	Outputs sound signal for right rear speaker	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right rear speaker.
A11	Not used	Not used	-----	-----	-----
A12	GRN	SCTY_RADIO_SW	Security signal from MICU	-----	If open: The security system sets, and does not trip when audio-navigation unit is removed. If short to ground: The security system sets, and does not trip when audio-navigation unit is removed.
A13	LT BLU	K_LINE	Detects scan tool signal (serial data)	-----	-----
A14	Not used	Not used	-----	-----	-----
A15	LT GRN	FL_SPKR +	Outputs sound signal for left front speaker(s)	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left front speaker(s).
A16	PNK	FL_SPKR -	Outputs sound signal for left front speaker(s)	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from left front speaker(s).
A17	Not used	Not used	-----	-----	-----
A18	Not used	Not used	-----	-----	-----
A19	GRY	FR_SPKR +	Outputs sound signal for right front speaker(s)	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right front speaker(s).
A20	BRN	FR_SPKR -	Outputs sound signal for right front speaker(s) &	Audio system on: Pulses (depends on audio output)	If open/short to ground: No sound is heard from right front speaker(s).
A21	Not used	Not used	-----	-----	-----
A22	Not used	Not used	-----	-----	-----
A23	BLU	VSP	Detects vehicle speed pulse from PCM	Ignition switch ON (II): 0 ~ 5 V pulses, 2.5 V average (depends on vehicle speed)	If open/short: No vehicle speed pulse. Diagnostic screen Car Status, VSP = 0.
A24	PUR	ACC	Power source for accessories	Ignition switch ACC (I): battery voltage	If open: Display picture goes out. If short to ground: Blows fuse No B19 (7.5 A) in the under-dash fuse/relay box.

Metra 70-1729

A1 Black Chassis Ground

A2 blank

A3 Yellow BAT+

x A4 Illumination (not pinned in car)

A5 Left Rear +

A6 Left Rear -

A7 blank

A8 blank

A9 Right Rear +

A10 Right Rear -

A11 blank

A12 blank

A13 blank

A14 blank

A15 Left Front +

A16 Left Front -

A17 blank

A18 blank

A19 Right Front +

A20 Right Front -

x A21 Blue Antenna (not pinned in car)

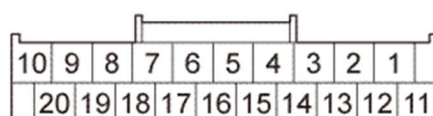
A22 blank

**x A23 not pinned in Metra and not needed
(supplied by Maestro to Head Unit)**

A24 Accessory Power+

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the circuit diagram.

AUDIO-NAVIGATION UNIT CONNECTOR B (20P)



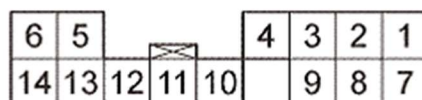
Wire side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
B1	RED	F_CAN-L	Communication signal	Ignition switch ON (II): Pulses (depends on bus traffic)	If open: System Links F-CAN icon shown as red. If short: Same diagnostic conditions as when open, also sets the related units DTC (F-CAN BUS OFF).
B2	WHT	F_CAN-H	Communication signal	Ignition switch ON (II): Pulses (depends on bus traffic)	If open: System Links F-CAN icon shown as red. If short: Same diagnostic conditions as when open, also sets the related units DTC (F-CAN BUS OFF).
B3	Not used	Not used	----	----	----
B4 ^{*2}	GRN	CAMERA_BIT0	Mode select signal for rearview camera	Normal view: 8 V	If open: No change to rearview camera image. If short to ground: No change to rearview camera image.
B5	Not used	Not used	----	----	----
B6	Not used	Not used	----	----	----
B7	Not used	Not used	----	----	----
B8	Not used	Not used	----	----	----
B9	BRN	BACK_LT	Detects reverse signal of select lever from reverse relay circuit	In reverse: Battery voltage	If open/short to ground: Diagnostic screen Car Status, BACK = 0
B10	WHT	+B_BACK_UP	Continuous power source for navigation system	Battery voltage	If open: Display picture goes out. If short to ground: Blows fuse No. A29 (10 A) in the under-hood fuse/relay box.
B11	YEL	TELM_SIG +	Inputs microphone signal positive	Ignition switch ACC (I): 2.3 V pulses (TALK button pressed)	If open/short to ground: Mic diag indicator does not work.
B12	BRN	TELEM_SIG -	Inputs microphone signal negative	0 V	If open/short to ground: Mic diag indicator does not work.
B13	GRY ^{*1}	SH_TELEM_SIG	Shield for terminals No. 11 and No. 12	----	----
B14	Not used	Not used	----	----	----
B15 ^{*2}	BLU	CAMERA_BIT1	Mode select signal for rearview camera	Top down view: 8 V	If open: No change to rearview camera image. If short to ground: No change to rearview camera image.
B16	Not used	Not used	----	----	----
B17	Not used	Not used	----	----	----
B18	Not used	Not used	----	----	----
B19	Not used	Not used	----	----	----
B20	BLK	GND	Ground for audio-navigation unit (G504)	0 V	If open: Display picture goes out. If short to ground: No effect on system.

*1: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the circuit diagram.

*2: With rearview camera

AUDIO-NAVIGATION UNIT CONNECTOR C (14P)

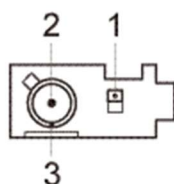


Wire side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
C1	RED	GA_AUDIO_L+	Inputs sound signal from GA-Net related unit(s)	----	----
C2	WHT	GA_AUDIO_R+	Inputs sound signal from GA-Net related unit(s)	----	----
C3	GRY*	SH_GA_AUDIO	Shield for terminals No. 1, No. 2, No. 7 and No. 8	----	----
C4	GRY*	SH_GA_BUS	Shield for terminals No. 11 and No. 12	----	----
C5	ORN	GA_SYS_ON	Outputs signal for multi-information display unit switching on/off	----	----
C6	Not used	Not used	----	----	----
C7	GRN	GA_AUDIO_L-	Inputs sound signal from GA-Net related unit(s)	----	----
C8	BLK	GA_AUDIO_R-	Inputs sound signal from GA-Net related unit(s)	----	----
C9	Not used	Not used	----	----	----
C10	Not used	Not used	----	----	----
C11	PNK	GA_BUS-	GA-Net bus communication signal	Ignition switch ACC (I): Pulses (depends on bus traffic)	If open/short to ground: System Links screen MID, XM, and HFL icon shows red.
C12	BLU	GA_BUS+	GA-Net bus communication signal	Ignition switch ACC (I): Pulses (depends on bus traffic)	If open/short to ground: System Links screen MID, XM, and HFL icon shows red.
C13	Not used	Not used	----	----	----
C14	Not used	Not used	----	----	----

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the circuit diagram.

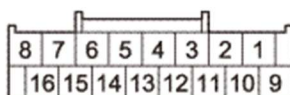
AUDIO-NAVIGATION UNIT CONNECTOR D (3P)



Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
D1	----	SWD +B	Power source for AM/FM antenna amplifier	----	----
D2	----	AM/FM	Inputs AM/FM signal	----	----
D3	----	SH (AM/FM)	Shield for terminal No. 2	----	----

AUDIO-NAVIGATION UNIT CONNECTOR E (16P)



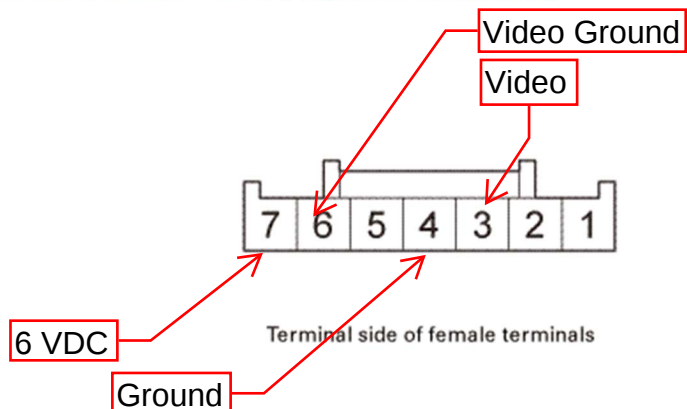
Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
E1	PNK	B_CAN-H	Communication signal	Ignition switch ON (II): Pulses (depends on bus traffic)	If open: System Links B-CAN icon shown as red. If short: Same diagnostic conditions as when open, also sets the related units DTC (B-CAN BUS OFF).
E2 ^{*2}	GRY ^{*1}	SH_SUB_W	Shield for terminals No. 3 and No. 11	----	----
E3 ^{*2}	PNK	SUB_W_PRE+	Outputs sound signal for subwoofer	----	----
E4	GRY ^{*1}	SH_TELEM_SIG	Shield for terminals No. 5 and No. 13	----	----
E5	BLU	TELEM_SIG+	Inputs telephone sound signal from HandsFreeLink control unit	----	----
E6	BLU	AUX_R_CH	Inputs sound signal from auxiliary jack assembly	----	----
E7	PNK	AUX_SGND	Ground for sound signal from auxiliary jack assembly	----	----
E8	GRN	AUX_L_CH	Inputs sound signal from auxiliary jack assembly	----	----
E9	BLU	B_CAN-L	Communication signal	Ignition switch ON (II): Pulses (depends on bus traffic)	If open: System Links B-CAN icon shown as red. If short: Same diagnostic conditions as when open, also sets the related units DTC (B-CAN BUS OFF).
E10	Not used	Not used	----	----	----
E11 ^{*2}	BLU	SUB_W_PRE-	Outputs sound signal for subwoofer	----	----
E12 ^{*2}	BRN	AMP_MUTE	Outputs stereo amplifier mute signal	----	----
E13	PNK	TELEM_SIG-	Inputs telephone sound signal from HandsFreeLink control unit	----	----
E14	GRY ^{*1}	SH_AUX	Shield for terminals No. 6, No. 7, and No. 8	----	----
E15	YEL	AUX_GND	Ground for auxiliary jack assembly	----	----
E16	WHT	AUX_DET	Detects connection signal for auxiliary jack assembly	----	----

*1: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire listed on the circuit diagram.

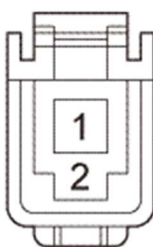
*2: With premium audio

AUDIO-NAVIGATION UNIT CONNECTOR F (7P) (with rearview camera)



Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom	
F1	BRN	CAMERA_ADPT	Inputs connection signal for rearview camera	0 V	If open: No change to display. If short to ground: No effect on system.	Harness blank
F2	GRY	SH_CAMERA	Shield for terminals No. 3, No. 4, No. 6, and No. 7	----	----	blank
F3	BLK	CAMERA_V	Outputs video signal to navigation display unit	0.3 V	If open: No change to rearview camera image. If short to ground: No change to rearview camera image.	Red
F4	RED	CAMERA_GND	Ground for rearview camera	0 V	If open: No change to rearview camera image. If short to ground: No change to rearview camera image.	Black
F5	Not used	Not used	----	----	----	blank
F6	WHT	CAMERA_V_GND	Ground for video signal	0 V	If open: No change to rearview camera image. If short to ground: No change to rearview camera image.	Black
F7	GRN	CAMERA_VCC	Power source for rearview camera	Ignition switch ON (II), in reverse: 5 V - 8 V	If open: When put into reverse, the navigation screen goes black (backlight still operation). If short to ground: When put into reverse, the navigation screen goes black (display backlight still operative).	Purple

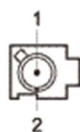
AUDIO-NAVIGATION UNIT CONNECTOR G (2P)



Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
G1	----	SIG (GPS)	Inputs GPS signal	Ignition switch ACC (I): 5 V	If open/short to ground: GPS icon on screen is not shown, diagnostic screen GPS Information, GPS Ant= OFF.
G2	----	SH (GPS)	Shield for terminal No. 1	----	If open/short to ground: GPS icon on screen is not shown, diagnostic screen GPS Information, GPS Ant= OFF.

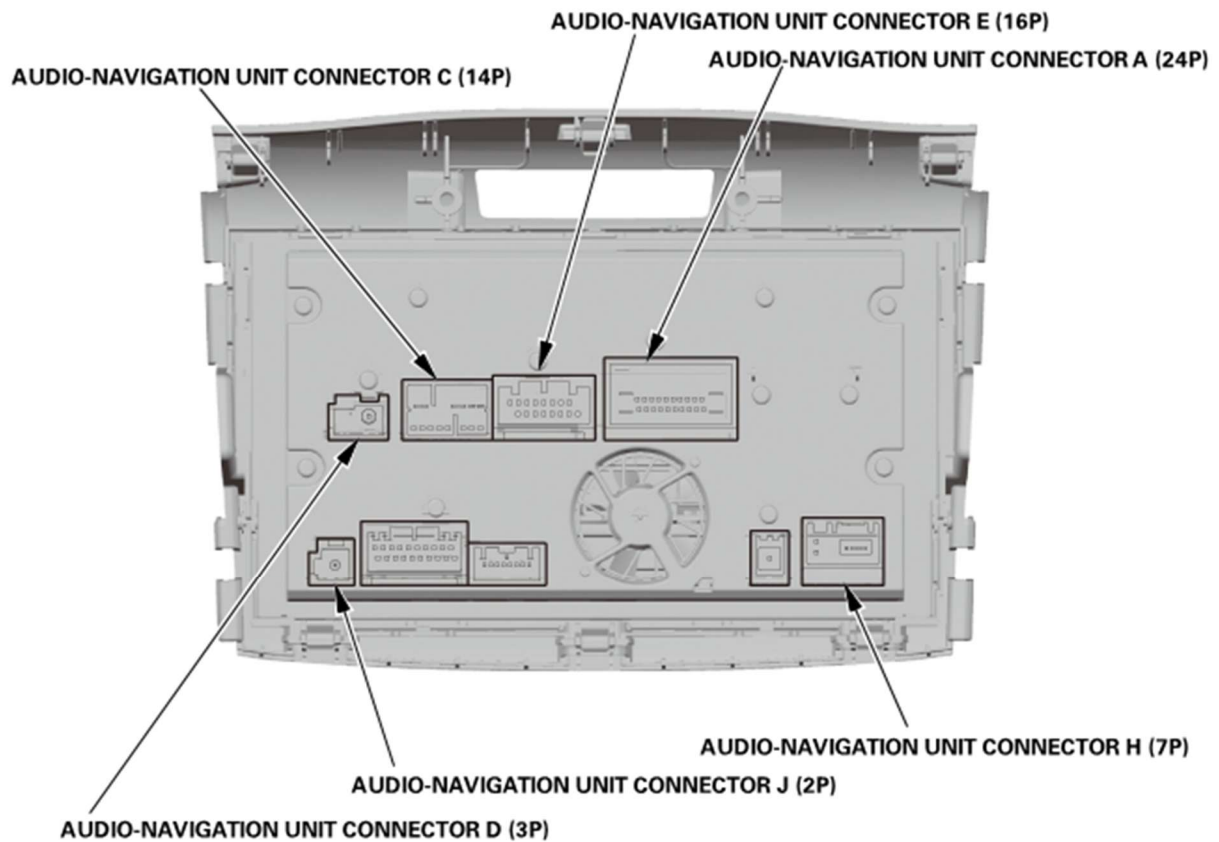
AUDIO-NAVIGATION UNIT CONNECTOR J (2P)



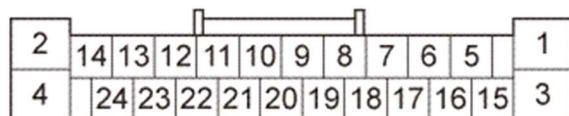
Terminal side of female terminals

Cavity	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
J1	----	TMC	Inputs FM signal	----	If open/short to ground: RDS-TMC information does not display.
J2	----	SH (TMC)	Shield for terminal No. 1	----	----

This came from a 2013 CR-V but should be identical. If anyone knows different, please let me know. Hopefully this helps anyone looking for info on this headunit.



AUDIO-NAVIGATION UNIT CONNECTOR A (24P)



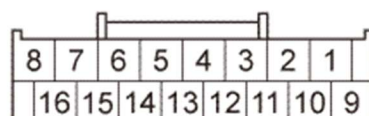
Wire side of female terminals

Audio-Navigation Unit Connector A (24P)

Cavity	Wire Color	Terminal Name	Description
A1	BLK	GND	Ground for audio-navigation unit (G503)
A2	Not Used	Not Used	—
A3	RED	+ B_BACK_UP	Continuous power source
A4	Not Used	Not Used	—
A5	BLU	RL_PRE+	Outputs sound signal for left rear door speaker
A6	PNK	RL_PRE-	Outputs sound signal for left rear door speaker
A7	GRY*	SH_RL_PRE	Shield for terminals No. 5 and No. 6
A8	GRY*	SH_RR_PRE	Shield for terminals No. 9 and No. 10
A9	LT BLU	RR_PRE+	Outputs sound signal for right rear door speaker
A10	PUR	RR_PRE-	Outputs sound signal for right rear door speaker
A11	Not Used	Not Used	—
A12	GRN	SCTY_RADIO_SW	Security signal from MICU
A13	LT BLU	K_LINE	Detects scan tool signal (serial data)
A14	Not Used	Not Used	—
A15	BRN	FL_PRE+	Outputs sound signal for left front speakers
A16	YEL	FL_PRE-	Outputs sound signal for left front speakers
A17	GRY*	SH_FL_PRE	Shield for terminals No. 15 and No. 16
A18	GRY*	SH_FR_PRE	Shield for terminals No. 19 and No. 20
A19	RED	FR_PRE+	Outputs sound signal for right front speakers
A20	GRN	FR_PRE-	Outputs sound signal for right front speakers
A21	RED	SWD+ B	Outputs voltage for stereo amplifier switching ON/OFF
A22	Not Used	Not Used	—
A23	GRN	VSP	Detect vehicle speed pulse from PCM
A24	PUR	ACC	Power source for accessories

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire shown on the circuit diagram.

AUDIO-NAVIGATION UNIT CONNECTOR E (16P)



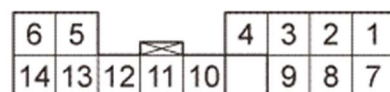
Wire side of female terminals

Audio-Navigation Unit Connector E (16P)

Cavity	Wire Color	Terminal Name	Description
E1	PNK	B_CAN-H	Communication signal
E2	GRY*	SH_SUB_W	Shield for terminals No. 3 and No. 11
E3	LT BLU	SUB_W_PRE +	Outputs sound signal for subwoofer
E4	GRY*	SH_TELEM_SIG	Shield for terminals No. 5 and No. 13
E5	BRN	TELEM_SIG +	Inputs telephone sound signal from HandsFreeLink control unit
E6	RED	AUX_R_CH	Inputs sound signal from auxiliary jack assembly
E7	BLK	AUX_SGND	Ground for sound signal from auxiliary jack assembly
E8	WHT	AUX_L_CH	Inputs sound signal from auxiliary jack assembly
E9	BLU	B_CAN-L	Communication signal
E10	Not Used	Not Used	—
E11	PUR	SUB_W_PRE -	Outputs sound signal for subwoofer
E12	RED	AMP_MUTE	Outputs stereo amplifier mute signal
E13	YEL	TELEM_SIG -	Inputs telephone sound signal from HandsFreeLink control unit
E14	GRY*	SH_AUX	Shield for terminals No. 6, No. 7, and No. 8
E15	LT GRN	AUX_GND	Ground for auxiliary jack assembly
E16	LT BLU	AUX_DET	Detects connection signal for auxiliary jack assembly

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire shown on the circuit diagram.

AUDIO-NAVIGATION UNIT CONNECTOR C (14P)



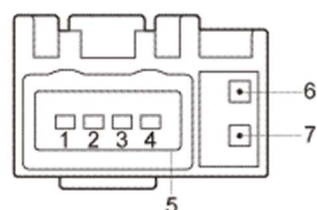
Wire side of female terminals

Audio-Navigation Unit Connector C (14P)

Cavity	Wire Color	Terminal Name	Description
C1	RED	GA_AUDIO_L+	Inputs sound signal from GA-Net related units
C2	GRN	GA_AUDIO_R+	Inputs sound signal from GA-Net related units
C3	GRY*	SH_GA_AUDIO	Shield for terminals No. 1, No. 2, No. 7, and No. 8
C4	GRY*	SH_GA_BUS	Shield for terminals No. 11 and No. 12
C5	PNK	GA_SYS_ON	Outputs signal for GA-Net related unit(s) switching ON/OFF
C6	RED	GA+B	Power source for XM receiver and HandsFreeLink control unit
C7	WHT	GA_AUDIO_L-	Inputs sound signal from GA-Net related units
C8	BLK	GA_AUDIO_R-	Inputs sound signal from GA-Net related units
C9	Not Used	Not Used	—
C10	BLK	GA_GND	Ground for XM receiver and HandsFreeLink control unit
C11	PNK	GA_BUS-	GA-Net bus communication signal
C12	BLU	GA_BUS+	GA-Net bus communication signal
C13	Not Used	Not Used	—
C14	Not Used	Not Used	—

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire shown on the circuit diagram.

AUDIO-NAVIGATION UNIT CONNECTOR H (7P)



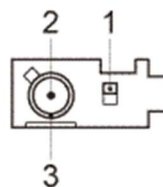
Wire side of female terminals

Audio-Navigation Unit Connector H (7P)

Cavity	Wire Color	Terminal Name	Description
H1	—	USB GND	Ground for communication signal
H2	—	USB_DATA+	Communication signal
H3	—	USB_DATA-	Communication signal
H4	—	USB_VBUS	Outputs power source for USB device
H5	—	USB SH	Shield for terminals No. 1, No. 2, No. 3, and No. 4
H6	—	USB ADPT	Ground for connection signal
H7	—	USB ON	Detects connection signal

*: The shielded wires have a heat-shrink tube insulating the outside of the wire. The color of the insulating tube, typically black or dark gray, may not match the color of the wire shown on the circuit diagram.

AUDIO-NAVIGATION UNIT CONNECTOR D (3P)

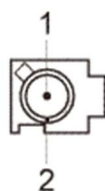


Terminal side of female terminals

Audio-Navigation Unit Connector D (3P)

Cavity	Wire Color	Terminal Name	Description
D1	—	SWD +B	Power source for AM/FM antenna amplifier
D2	—	AM/FM	Inputs AM/FM signal
D3	—	SH (AM/FM)	Shield for terminal No. 2

AUDIO-NAVIGATION UNIT CONNECTOR J (2P) (USA models)



Terminal side of female terminals

Audio-Navigation Unit Connector J (2P) (USA models)

Cavity	Wire Color	Terminal Name	Description
J1	—	TMC RF IN	Inputs FM signal
J2	—	TMC RF SH	Shield for terminal No. 1